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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/781,271	02/17/2004	Bjoern Goerke	09700.0066-01	2046

22852 7590 11/26/2007
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EXAMINER

STEVENS, ROBERT

ART UNIT	PAPER NUMBER
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2162

MAIL DATE	DELIVERY MODE
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11/26/2007

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

10/781,271

Applicant(s)

GOERKE ET AL.

Examiner

Robert Stevens

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 06 September 2007.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-3, 5-24 and 28-31 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-3, 5-24 and 28-31 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

1. The Office withdraws the previous rejections of the claims under 35 USC §103(a), in light of the amendment. However, the Office sets forth new rejections of the claims under 35 USC §103(a), in light of the amendment.

Response to Arguments

2. Applicant's arguments with respect to claims have been considered but are moot in view of the new ground(s) of rejection.

Applicant's arguments concerning the rejection of the claims under 35 USC §103(a) appear to be primarily directed to the newly amended claim language. New rejections citing a new reference have been set forth below to address the amended claim language.

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. **Claims 1-3, 5-24 and 28-31 are rejected under 35 U.S.C. 103(a)** as being unpatentable over Inanoria (US Patent Application Publication No. 2004/0046789, provisionally filed Aug. 23, 2002 and published Mar. 11, 2004, hereafter referred to as “Inanoria”) in view of Pena et al. (US Patent Application Publication No. 2003/0225829, provisionally filed May 22, 2002 and published Dec. 4, 2003, hereafter referred to as “Pena”), Tim Pattison et al. (“Information Visualisation Using Composable Layouts and Visual Sets”, Australian Symposium on Information Visualisation, Vol. 9, Sydney, Australia, Dec. 2001, pp. 1-10, hereafter referred to as “Pattison”) and Michael J. Mahemoff et al. (“Handling Multiple Domain Objects with Model-View-Controller”, TOOLS 32, Nov. 22-25, 1999, pp. 28-39, hereafter referred to as “Mahemoff”).

Regarding independent claim 1: Inanoria discloses: *A computer program product, tangibly embodied in computer readable medium, the computer program product comprising instructions operable to cause data processing apparatus to assist in development of user interfaces: receiving user input specifying a view composition, the view composition comprising a set of views, each view in the set of views comprising a layout of the one or more user interface elements selected from the set of user interface elements, (See paragraphs [0124] – [0126] in the context of [0145] in Inanoria, discussing a Layout Manager using templates for providing GUI layouts, and Figure 8, showing an exemplary layout) and storing the view composition in a repository. (See [0099] in Inanoria, discussing the calling of the appropriate template, having been implied that the template was being called from storage.)*

However, Inanoria does not explicitly disclose navigation links. Pena, though, discloses: *the view composition further comprising a layout of the views and at least one navigation link, each navigation link specifying a potential transition from a first view in the set of views to a second view in the set of views, wherein each navigation link comprises an association between an exit point in the first view and an entry point in the second view;* (See paragraph [0095] in the context of [0099] in Pena, discussing the use of a link for action transitions among page views. It is noted that such links inherently associate views.) *such that a rendering program uses the view composition to display the user interface.* (See Pena Fig. 8 #804, which discusses the rendering of the models)

It would have been obvious to one of ordinary skill in the art at the time of the invention to apply the teachings of Pena for the benefit of Inanoria, because to do so allowed a system designer to implement a platform- and language-independent content delivery system and method, as taught by Pena in the Abstract. These references were all applicable to the same field of endeavor, i.e., the management of graphical user interfaces.

However, Inanoria does not explicitly disclose the remaining limitations as claimed. Pattison, though, discloses: *enabling a user to lay out one or more views for a user interface* (See Pattison page 5 Fig. 2 showing a GUI for specifying a view and consists of a layout composition tree on the left and a layout rule customizer on the right, as discussed in the paragraph starting above, and finishing below, Fig. 2. Also note the discussion in the 1st paragraph of the section entitled “1. Introduction” on page 1, of prior art graph visualization and

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navigation techniques as assisting users in exploring large datasets having inherent relations among data elements, such as web pages and databases.)

It would have been obvious to one of ordinary skill in the art at the time of the invention to apply the teachings of Pattison for the benefit of Inanoria in view of Pena, because to do so allowed a user to simultaneously exploit the strengths of a number of information visualization techniques, as taught by Pattison in the 3rd paragraph of section “1. Introduction” on page 1. These references were all applicable to the same field of endeavor, i.e., the management of graphical user interfaces.

Additionally, Inanoria does not explicitly disclose the remaining limitations as claimed. Mahemoff, though, discloses: *including allowing the user to select one or more interface elements from a set of user interface elements for each of the one or more views*; (See Mahemoff page section “3.3 Reusability of components” discussing that reusable component technology, which allows selection of user interface components such as buttons and popup menus, for example, was available in most toolkits of the time.)

It would have been obvious to one of ordinary skill in the art at the time of the invention to apply the teachings of Mahemoff for the benefit of Inanoria in view of Pena and Pattison, because to do so provided a designer with a simple but effective way to develop user interface prototypes, as taught by Mahemoff at the top of page 29. These references were all applicable to the same field of endeavor, i.e., the management of graphical user interfaces.

Regarding claim 2: Inanoria teaches multiple user interface elements, view user elements and container elements. (See Figure 3, showing multiple buttons and multiple windows, and paragraph [0075], discussing grouping and nesting of containers.)

Regarding claim 3: Inanoria teaches manipulating property settings. (See paragraph [0065].)

Regarding claim 5: Inanoria does not explicitly teach this limitation as claimed. However, Pena teaches using events to trigger navigation links and event handlers. (See paragraph [0062], discussing IDML Actions processing.)

Regarding claim 6: Inanoria teaches using pre-defined layouts. (See paragraph [0124], discussing master templates and a plurality of templates for each supported layout.)

Regarding claim 7: Inanoria teaches nesting of views. (See paragraphs [0075] – [0076], discussing grouping and nesting of GUI components in a container.)

Regarding claims 8-9: Inanoria teaches view association. (See Figure 8, showing the result of an association of views and view containers in an enclosing view.) Inanoria further teaches the use of pre-defined layouts. (See paragraph [0124].)

Regarding claims 10-11: Inanoria teaches view association. (See Figure 8, showing the result of an association of views and view containers in an enclosing view.) Inanoria further teaches the use of pre-defined layouts. (See paragraph [0124]. The specific view designated as a default was also an obvious variant to one skilled in the art at the time of the invention.)

Regarding claims 12-13: Inanoria teaches the use of reusable components. (See paragraph [0011], discussing the use of reusable and extendible content objects. Reuse of software components, including coded classes and objects, was well-known and whether to employ such a strategy was also an obvious variant to one skilled in the art at the time of the invention.)

Regarding claim 14: Inanoria teaches the use of user GUI controls. (See Figure 10A – 10D, showing an editor GUI, and Figure 1, noting the client browser transmission of the HTTP request [element #1].)

Regarding claim 15: Inanoria teaches the use and storage of XML view compositions. (See paragraphs [0099] and [0102], discussing the use of XSL templates, which are written in XML, and paragraph [0103] discussing the “importing” of an XSL file, it having been implicit that such a file must have first been stored in order to have been later imported.)

Regarding independent claim 16: Inanoria discloses: *A computer program product, tangibly embodied in an information carrier, the computer program product comprising instructions operable to cause data processing apparatus to assist in execution of an application: generating the user interface comprising the layout, the layout and the set of views being specified in a view composition, each view in the set of views comprising a layout of one or more user interface elements selected from a set of user interface elements;* (See paragraphs [0124] – [0126] in the context of [0145] in Inanoria, discussing a Layout Manager using templates for providing GUI layouts, and Figure 8, showing an exemplary layout).

However, Inanoria does not explicitly disclose navigation links. Pena, though, discloses: *modifying the user interface based on at least one navigation link specified in the view composition, wherein each navigation link associates a first view in the set of views with a second view in the set of views, wherein each navigation link comprises an association between an exit point in the first view and an entry point in the second view.* (See paragraph [0095] in the context of [0099] in Pena, discussing the use of a link for action transitions among page views. It is noted that such links inherently associate views.)

It would have been obvious to one of ordinary skill in the art at the time of the invention to apply the teachings of Pena for the benefit of Inanoria, because to do so allowed a system designer to implement a platform- and language-independent content delivery system and method, as taught by Pena in the Abstract. These references were all applicable to the same field of endeavor, i.e., the management of graphical user interfaces.

However, Inanoria does not explicitly disclose the remaining limitations as claimed.

Pattison, though, discloses: *enabling a user to lay out one or more views from a set of views for a user interface* (See Pattison page 5 Fig. 2 showing a GUI for specifying a view and consists of a layout composition tree on the left and a layout rule customizer on the right, as discussed in the paragraph starting above, and finishing below, Fig. 2. Also note the discussion in the 1st paragraph of the section entitled “1. Introduction” on page 1, of prior art graph visualization and navigation techniques as assisting users in exploring large datasets having inherent relations among data elements, such as web pages and databases. See also the 2nd paragraph of section “2.6 Visual Sets” on page 4, which discuss visual sets and an exemplary stacking order mechanism to achieve an overlay effect.)

It would have been obvious to one of ordinary skill in the art at the time of the invention to apply the teachings of Pattison for the benefit of Inanoria in view of Pena, because to do so allowed a user to simultaneously exploit the strengths of a number of information visualization techniques, as taught by Pattison in the 3rd paragraph of section “1. Introduction” on page 1. These references were all applicable to the same field of endeavor, i.e., the management of graphical user interfaces.

Additionally, Inanoria does not explicitly disclose the remaining limitations as claimed.

Mahemoff, though, discloses: *including allowing the user to select one or more interface elements from a set of user interface elements for each of the one or more views*; (See Mahemoff page section “3.3 Reusability of components” discussing that reusable component

technology, which allows selection of user interface components such as buttons and popup menus, for example, was available in most toolkits of the time.)

It would have been obvious to one of ordinary skill in the art at the time of the invention to apply the teachings of Mahemoff for the benefit of Inanoria in view of Pena and Pattison, because to do so provided a designer with a simple but effective way to develop user interface prototypes, as taught by Mahemoff at the top of page 29. These references were all applicable to the same field of endeavor, i.e., the management of graphical user interfaces.

Regarding claims 17-18: Inanoria teaches the invoking of event handlers. (See paragraph [0176], discussing event processing by the Event Manager and event propagation among containers.) However, Inanoria does not explicitly teach displaying a second view. Pena, though, teaches action transitions between page views. (See paragraph [0095].)

Regarding claim 19: Inanoria teaches nesting of views to effect a layout. (See paragraphs [0075] – [0076], discussing grouping of GUI components in a container.) Inanoria further teaches the displaying of the view, which was specified by the layout. (See paragraph [0077], discussing the processing performed by a Layout Manager. The specific layout implemented was an obvious variant to one skilled in the art at the time of the invention.)

Regarding claims 20-21: Inanoria teaches nesting of views to effect a layout. (See paragraphs [0075] – [0076], discussing grouping of GUI components in a container.) Inanoria further teaches the displaying of the view, which was specified by the layout. (See paragraph [0077], discussing the processing performed by a Layout Manager.)

Regarding claim 22: Inanoria teaches modifying a view composition. (See paragraphs [0075] and [0077], discussing the use of object oriented programming of containers and affecting the visual attributes of hierarchically structured containers.)

Regarding claim 23: Inanoria does not explicitly teach this limitation as claimed. However, Pena teaches using a navigation link to move among page views. (See paragraph [0095] in the context of [0099], discussing the use of a link for action transitions among page views.)

Regarding claim 24: Inanoria teaches the use of reusable components. (See paragraph [0011], discussing the use of reusable and extendible content objects. Reuse of software components, including coded classes and objects, was well-known and whether to employ such a strategy, and the number of reusable components used, was an obvious variant to one skilled in the art at the time of the invention.)

Independent claims 28-29 are respectively directed to a method and an apparatus for implementing computer product claim 1. As such, these claims are substantially similar to claim 1, and therefore likewise rejected. Pena further discloses the use of a processor in Fig. 2 #220.

Independent claims 30-31 are respectively directed to a method and an apparatus for implementing computer product claim 16. As such, these claims are substantially similar to claim 16, and therefore likewise rejected. Pena further discloses the use of a processor in Fig. 2 #220.

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Conclusion

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Non-Patent Literature

Leff, Avraham, et al., "Web-Application Development Using the Model/View/Controller Design Pattern", EDOC '01, Sep. 4-7, 2001, pp. 118-127.

da Silva, Paulo Pinheiro, et al., "Generating User Interface Code in a Model Based User Interface Development Environment", AVI 2000, Palermo, Italy, © 2000, pp. 155-160.

Girardin, Robert, et al., "Introduction to the SAS Custom Tag Library", SAS Users Group International 28 (SUGI 28), Paper 60-28, Seattle, WA, Mar. 30 – Apr. 2, 2003, pp. 1-8.

US Patent Application Publications

Lindberg et al	2002/0143800
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US Patents

Menendez et al	5,555,369
Kekic et al	6,272,537
Prinzing	6,496,202

6. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Robert Stevens whose telephone number is (571) 272-4102. The examiner can normally be reached on M-F 6:00 - 2:30.

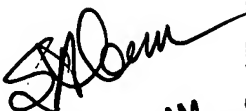
If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John E. Breene can be reached on (571) 272-4107. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.



Robert Stevens
Examiner
Art Unit 2162

November 19, 2007



SHAHID ALAM
PRIMARY EXAMINER